

## **IN THE CLAIMS:**

A complete listing of the claims is set forth below. Please amend the claims as follows:

1.-16. **(Cancelled).**

17. **(Currently Amended)** Logic for generating an order plan, the logic being encoded in computer readable media and when executed by a computer operable to:

access data describing a plurality of priority levels, each priority level comprising at least one item request;

access data describing a supply chain network comprising a plurality of network components, each network component operable to supply one or more items to satisfy an item request;

access data about infeasible periods of time associated with one or more respective network components, wherein the data about infeasible periods of time associated with one or more respective network components comprises data about infeasible periods of time that were determined for other priority levels;

for each priority level:

for each item request of a priority level:

plan an order for an item request of a current priority level using the data about infeasible periods of time associated with a plurality of network components that are unable to satisfy an item request during respective periods of time; and

determine any additional unplannable network components for the current priority level;

validate the additional unplannable network components; and

record the validated unplannable network components for the current priority level; and

provide an order plan comprising the orders planned for the item requests at each priority level.

18.-27. **(Cancelled)**.

28. **(Currently Amended)** The logic of Claim ~~[[27,]]~~ 17, wherein the data about infeasible periods of time associated with one or more respective network components comprises data about infeasible periods of time that were determined for higher priority levels.

29. **(Previously Presented)** The logic of Claim 17, wherein the data about infeasible periods of time associated with one or more respective network components comprises data associated with one of the network components describing a time interval during which the network component is unplannable.

30. **(Previously Presented)** The logic of Claim 29, wherein the time interval is a time interval from a previously determined unplannable time to a predetermined build ahead time.

31. **(Previously Presented)** The logic of Claim 17, wherein the recording of the validated unplannable network components comprises storing data about infeasible periods of time for the unplannable network components.